

**In the Claims:**

1-16. (Cancelled)

17. (New) A paper spool having roll-like printing paper wound around the spool, the spool comprising a rotation detection notch formed on at least one interior end of the paper spool, wherein the spool does not extend past the width of the paper.

18. (New) A paper spool and support apparatus, the paper spool having roll-like printing paper wound around the spool, the spool and support apparatus comprising:

a rotation detection notch formed on at least one interior end of the paper spool, wherein the spool does not extend past the width of the paper.; and  
printing paper roll presses for rotatably supporting the paper spool.

19. (New) A paper spool and support apparatus, the spool having roll-like printing paper wound around the spool, the spool and support apparatus comprising:

a rotation detection notch formed on at least one interior end of the paper spool, wherein the spool does not extend past the width of the paper.;  
printing paper roll presses for rotatably supporting the paper spool; and

a rotation detector that determines a rotation of the paper spool by detecting the detection notch.